

**WHAT IS CLAIMED IS:**

1. A drill bit assembly including a drill bit having a leading end to which a drill tip is fixed by bonding, said drill tip having a front cutting edge, a pair of side cutting edges, a rear end, and a pair of parallel side walls, said leading end being arranged to support said rear end and said parallel side walls of said drill  
5 tip, said drill bit including a bore extending axially therethrough and opening into said leading end, said drill tip extending across said bore in a lateral direction and permitting egress of flushing liquid from said bore, said drill tip including a locating structure arranged to engage an engagement face structure formed at  
10 said leading end of said drill bit to locate said drill tip in a prescribed bonding position relative to said leading end prior to bonding of said drill tip to said leading end, and to resist shifting movement of said drill tip in said lateral direction out of said prescribed bonding position during bonding of the drill tip.
2. A drill bit assembly according to claim 1, said locating structure comprising a rearward projection structure.
- 15 3. A drill bit assembly according to claim 2, said leading end including a pair of axially extending abutment elements each of which includes an abutment face for engaging and supporting a respective one of said side walls, and a support face extending generally laterally from each said abutment face for supporting said rear end of said drill tip, said abutment elements defining  
20 respective engagement faces together forming said engagement face structure, each engagement face facing laterally inwardly and extending axially from said support face, said engagement faces being spaced-apart in opposed facing relationship, said projection structure extending from said rear end of said drill tip for engagement with said engagement faces.

4. A drill bit assembly according to claim 3, wherein said projection structure is generally of the same thickness as said drill tip as measured between said side walls, said projection structure defining two laterally outwardly facing edges, a distance between said outwardly facing edges being slightly less than the spacing between said engagement faces.

5. A drill bit assembly according to claim 3, said projection structure including a pair of laterally spaced-apart projections extending from said lower end, said projections engaging respectively against said engagement faces.

6. A drill bit assembly according to claim 1, said engagement face structure, being formed as an extension of an internal surface of said bore.

7. A drill bit assembly according to claim 1, said engagement face structure being formed by an internal surface of said bore.

8. A drill bit assembly according to claim 7, wherein said projection structure extends from said rear end and engages respective diametrically opposed engagement faces which together constitute the engagement face structure.

9. A drill bit assembly according to claim 7, wherein the projection structure comprises a pair of spaced apart projections.

10. A drill bit assembly according to claim 8, wherein a thickness of said drill tip is less than a diameter of a leading end of said bore.

11. A drill tip for a drill bit, comprising a front end having a pair of front cutting edges, a pair of side cutting edges, a rear end disposed opposite the front end and being elongated in a direction of elongation from one side cutting edge to the other side cutting edge, and a pair of parallel side walls each  
5 interconnecting the front and rear ends, the tip defining a center axis of rotation extending through the front and rear ends in a direction perpendicular to the direction of elongation, the front cutting edges being inclined obliquely relative to the axis of rotation in a direction generally away from the rear end and being inclined obliquely relative to the axis of rotation in a direction generally away  
10 from the rear end and being inclined obliquely relative to the axis of rotation as viewed perpendicularly to the side walls, a rear end elongated in a direction of elongation, and a pair of parallel side walls, said rear end having a locating structure to locate said drill tip in a bonding position prior to being bonded to a drill bit, to resist shifting movement of said drill tip in said direction of elongation  
15 and out of the bonding position.

12. A drill tip according to claim 11, said locating structure comprising a projection structure extending rearwardly from said rear end.

13. A drill tip according to claim 12, wherein said projection structure comprises a pair of projections spaced apart in the direction of elongation.